Fungi Sampling and Cultivation

1. Identify the infected crops.
2. Using gloves, take the infected crop samples from the fields by pulling them out and if necessary with help from scissors. Then place them in a Ziploc bag.
3. Back in the laboratory identify the different present fungi.
4. Using a scalpel and a dissecting sheet, scrap an aerial mycelium from the fungi over PDA agar.
5. Repeat the previous step for every fungi, sterilizing and changing the dissecting sheet every time.
6. Simultaneously scrap the same samples over MYS agar to observe the contrast.
7. Incubate the inoculated plates at room temperature (25°C).

* Observe the culture's growth, and characterize your samples both **macro** (color, size, shape, upper and lower view, texture, edge, elevation) and **microscopically**. For microscopical observance put a drop of lactophenol blue for staining in a glass slide. Take aerial mycelium from the fungi and put it in the lactophenol blue drop. Add a coverslip and observe at the microscope (hyphae, phialides, conidia, sporangia and spores characteristics and shapes).